

**Title:**

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**Application Number:** FR830008205 19830518

**Priority Number(s):** JP820082344 19820518

**IPC Classification:**

**Requested Patent:** ● FR2527196

**Equivalents:** ● DE3318088, ● JP58199711

### Abstract

A process for producing aluminium silicate powder is described, in which a mixture of a powder of an aluminium alkoxide and/or aluminium oxide having a particle diameter of not more than 1  $\mu$ m and a silicon alkoxide is hydrothermally treated at a temperature of at least 100 DEG C.

L2 ANSWER 1 OF 2 WPINDEX COPYRIGHT 1999 DERWENT INFORMATION LTD  
 ACCESSION NUMBER: 1983-828166 [48] WPINDEX  
 DOC. NO. CPI: C83-115631  
 TITLE: Aluminium silicate powder mfr. - by hydrothermal  
 treatment of mixt. contg. alumina or aluminium alkoxide,  
 and silicon alkoxide.  
 DERWENT CLASS: E33 L02  
 INVENTOR(S): KANAGAWA, S; SOMIYA, S; YOHISMURA, M; YOSHIMURA, M  
 PATENT ASSIGNEE(S): (DNIN) DAINIPPON INK & CHEM KK  
 COUNTRY COUNT: 3  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
DE 3318088	A	831124	(8348)*		22	
FR 2527196	A	831125	(8401)			
JP 58199711	A	831121	(8401)			

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APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
FR 2527196	A	FR 83-8205	830518
JP 58199711	A	JP 82-82344	820518

PRIORITY APPLN. INFO: JP 82-82344 820518  
 INT. PATENT CLASSIF.: B01J020-16; B01J021-12; C01B033-26; C04B035-18;  
 C08K003-34; C09C001-40

BASIC ABSTRACT:

DE 3318088 A UPAB: 19930925  
 A mixt. is made contg. (a) aluminium alkoxide- and/or alumina-powder with a  
 max. particle size of 1 micron; and (b) a silicon alkoxide. The mixt. is  
 then subjected to a hydrothermal treatment at min. 100 deg.C, and pref. at  
 min. 10 kg/sq.cm, to obtain an aluminium silicate powder.  
 The mixt. (a,b) pref. has an atomic ratio of Al:Si of min. 2:1. A  
 pref. mixt. contains aluminium alkoxide and silicon alkoxide; or alumina  
 and silicon alkoxide. Each alkoxide pref. contains 1-5 carbon atoms.  
 The aluminium silicate powder is obtd. with a yield above 95%; and is  
 easily calcined to homogeneous mullite. The aluminium silicate powder can  
 be used as such as a filler, catalyst or adsorbent; or can be mixed with a  
 binder, pressed and sintered to make mullite objects.

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FILE SEGMENT: CPI  
 FIELD AVAILABILITY: AB  
 MANUAL CODES: CPI: E05-B03; E05-E03; E34-C02; L02-G12